

What is claim:

1. An image processing method comprising steps of:
  - obtaining input image data representing an image on one frame;
  - displaying the obtained input image data on a first preview screen so that the image on one frame is displayed as an image on the first preview screen;
  - setting plural image areas in the displayed image on the first preview screen so that plural sub images are separately enclosed with the plural image areas in the displayed image on the first preview screen,
  - extracting plural sub image data corresponding to the plural sub images enclosed with the plural image areas from the input image data, and
  - displaying the extracted plural sub image data on a second preview screen so that the plural sub images are separately displayed in plural frames on the second preview screen.
2. The image processing method of claim 1, further comprising step of:

image-processing the extracted each image data based on the image quality adjustment value of respective the image data.

3. The image processing method of claim 1, wherein the plurality of image areas can be set by overlapping.

4. The image processing method of claim 1, wherein the second preview screen can arrange and display an image of the image data different from the input image data, in addition to the image of the area which is extracted from the image displayed on the first preview image screen.

5. The image processing method of claim 1, further comprising steps of:

displaying the obtained input image data on a third preview screen so that image on plural frames is displayed as an image on the third preview screen,

selecting an image in the displayed images on plural frames so as to trimming the image data,

extracting the selected images, and

displaying the extracted images in addition to the image in the set plurality of areas which is arranged on the second preview screen.

6. An image processing method comprising steps of:
  - obtaining input image data representing an image on one frame, wherein the image data are inputted from the plural image scanning device;
  - displaying the obtained input image data on a first preview screen so that the image on one frame is displayed as an image on the screen;
  - image-processing the extracted each image data based on the image quality adjustment value of respective the image data.

7. The image processing method of claim 6, wherein the image data of the adjusted plurality of images is stored in a single image recording medium.

8. An image processing method for trimming an image; comprising steps of;
  - obtaining input image data representing an image on one frame,

displaying an image of the obtained input image data and a frame of trimming area which is defined in a rectangle shape, and

designating an area of the frame whose shape is similar to the rectangle, and whose dimension is different from it for trimming,

wherein the origin for adjusting the dimension of the area can be designated to any one of each of apexes of the rectangle and the center of gravity of the rectangle.

9. An image processing method for trimming an image; comprising steps of;

obtaining input image data representing an image on one frame,

displaying an image of the obtained input image data on and a frame of trimming area which is defined in a predetermined shape, and

designating an area of the frame whose shape is similar to the predetermined shape, and whose dimension is different from it for trimming,

wherein the origin for adjusting the dimension of the area can be designated to any one of each of apexes of the

rectangle which circumscribes the predetermined shape, and the center of gravity of the rectangle.

10. The image processing method of claim 8, wherein the trimming area is set by rotating the rectangle, the origin for rotating the area can be set to any one of each of apexes of the rectangle and the center of gravity of the rectangle.

11. The image processing method of claim 9, wherein the trimming area is set by rotating the predetermined shape, and the trimming processing is conducted, the origin for rotating the area can be designated to any one of each of apexes of the rectangle circumscribing the shape and the center of gravity of the rectangle.

12. The image processing method of claim 8, comprising step of;

switching any one of a first trimming area setting mode and a second trimming area setting mode, wherein the first trimming area setting mode is allowed that an area after the trimming processing protrudes from the area of the input image data, the second area setting mode is restricted that

an area after the trimming processing protrudes from the area of the input image data.

13. An image processing apparatus comprising:
  - a obtaining device to obtain input image data representing an image on one frame;
  - a displaying device to display the obtained input image data on a first preview screen so that the image on one frame is displayed as an image on the first preview screen;
  - a setting device to set plural image areas in the displayed image on the first preview screen so that plural sub images are separately enclosed with the plural image areas in the displayed image on the first preview screen,
  - a extracting device to extract plural sub image data corresponding to the plural sub images enclosed with the plural image areas from the input image data, and
  - a displaying device to display the extracted plural sub image data on a second preview screen so that the plural sub images are separately displayed in plural frames on the second preview screen.

14. The image processing apparatus of claim 13, further comprising:

an image-processing device to process the extracted each image data based on the image quality adjustment value of respective the image data.

15. The image processing apparatus of claim 13, wherein the plurality of image areas can be set by overlapping.

16. The image processing apparatus of claim 13, wherein the second preview screen can arrange and display an image of the image data different from the input image data, in addition to the image of the area which is extracted from the image displayed on the first preview image screen.

17. The image processing apparatus of claim 13, further comprising:

a displaying device to display the obtained input image data on a third preview screen so that image on plural frames is displayed as an image on the third preview screen,

a selecting device to select an image in the displayed images on plural frames so as to trimming the image data,

a extracting device to extract the selected images, and

a displaying device to display the extracted images in addition to the image in the set plurality of areas which is arranged on the second preview screen.

18. An image processing apparatus comprising:

a obtaining device to obtain input image data representing an image on one frame, wherein the image data are inputted from the plural image scanning device;

a displaying device to display the obtained input image data on a first preview screen so that the image on one frame is displayed as an image on the screen;

an image-processing device to process the extracted each image data based on the image quality adjustment value of respective the image data.

19. The image processing apparatus of claim 18, wherein the image data of the adjusted plurality of images is stored in a single image recording medium.

20. An image processing apparatus for trimming an image; comprising;

a obtaining device to obtain input image data representing an image on one frame,

a displaying device to display an image of the obtained input image data and a frame of trimming area which is defined in a rectangle shape, and

a designating device to designate an area of the frame whose shape is similar to the rectangle, and whose dimension is different from it for trimming,

wherein the origin for adjusting the dimension of the area can be designated to any one of each of apexes of the rectangle and the center of gravity of the rectangle.

21. An image processing apparatus for trimming an image; comprising;

a obtaining device to obtain input image data from the pre-scan by the image scanning device,

a displaying to display an image of the obtained input image data and a frame of trimming area which is defined in a predetermined shape, and

a designating to designate an area of the frame whose shape is similar to the predetermined shape, and whose dimension is different from it for trimming,

wherein the origin for adjusting the dimension of the area can be designated to any one of each of apexes of the

rectangle which circumscribes the predetermined shape, and the center of gravity of the rectangle.

22. The image processing apparatus of claim 20, wherein the trimming area is set by rotating the rectangle, the origin for rotating the area can be set to any one of each of apexes of the rectangle and the center of gravity of the rectangle.

23. The image processing apparatus of claim 21, wherein the trimming area is set by rotating the predetermined shape, and the trimming processing is conducted, the origin for rotating the area can be designated to any one of each of apexes of the rectangle circumscribing the shape and the center of gravity of the rectangle.

24. The image processing apparatus of claim 20, comprising; a switching device to switch any one of a first trimming area setting mode and a second trimming area setting mode, wherein the first trimming area setting mode is allowed that an area after the trimming processing protrudes from the area of the input image data, the second area setting mode is restricted that an area after the trimming processing protrudes from the area of the input image data.

25. An image processing program to control a computer to function as a image processing device, comprising;

- a obtaining section to obtain input image data representing an image on one frame;
- a displaying section to display the obtained input image data on a first preview screen so that the image on one frame is displayed as an image on the first preview screen;
- a setting section to set plural image areas in the displayed image on the first preview screen so that plural sub images are separately enclosed with the plural image areas in the displayed image on the first preview screen,
- a extracting section to extract plural sub image data corresponding to the plural sub images enclosed with the plural image areas from the input image data, and
- a displaying section to display the extracted plural sub image data on a second preview screen so that the plural sub images are separately displayed in plural frames on the second preview screen.

26. The image processing program of claim 25, further comprising:

an image-processing section to process the extracted each image data based on the image quality adjustment value of respective the image data.

27. The image processing program of claim 25, wherein the plurality of image areas can be set by overlapping.

28. The image processing program of claim 25, wherein the second preview screen can arrange and display an image of the image data different from the input image data, in addition to the image of the area which is extracted from the image displayed on the first preview image screen.

29. The image processing program of claim 25, further comprising;

    a displaying section to display the obtained input image data on a third preview screen so that image on plural frames is displayed as an image on the third preview screen,

    a selecting section to select an image in the displayed images on plural frames so as to trimming the image data,

    a extracting section to extract the selected images,  
and

a displaying section to display the extracted images in addition to the image in the set plurality of areas which is arranged on the second preview screen.

30. An image processing program to control a computer to function as a image processing device, comprising;

a obtaining section to obtain input image data representing an image on one frame, wherein the image data are inputted from the plural image scanning device;

a displaying section to the display the obtained input image data on a first preview screen so that the image on one frame is displayed as an image on the screen;

an image-processing section to process the extracted each image data based on the image quality adjustment value of respective the image data.

31. The image processing program of claim 30, wherein the image data of the adjusted plurality of images is stored in a single image recording medium.

32. An image processing program to control a computer to function as a image trimming device, comprising;

a obtaining section to obtain input image data representing an image on one frame,

a displaying section to display an image of the obtained input image data and a frame of trimming area which is defined in a rectangle shape, and

a designating section to designate an area of the frame whose shape is similar to the rectangle, and whose dimension is different from it for trimming,

wherein the origin for adjusting the dimension of the area can be designated to any one of each of apexes of the rectangle and the center of gravity of the rectangle.

33. An image processing program to control a computer to function as a image trimming device, comprising;

a obtaining section to obtain input image data representing an image on one frame,

a displaying section to display an image of the obtained input image data and a frame of trimming area which is defined in a predetermined shape, and

a designating section to designate an area of the frame whose shape is similar to the predetermined shape, and whose dimension is different from it for trimming,

wherein the origin for adjusting the dimension of the area can be designated to any one of each of apexes of the rectangle which circumscribes the predetermined shape, and the center of gravity of the rectangle.

34. The image processing program of claim 32, wherein the trimming area is set by rotating the rectangle, the origin for rotating the area can be set to any one of each of apexes of the rectangle and the center of gravity of the rectangle.

35. The image processing program of claim 33, wherein the trimming area is set by rotating the predetermined shape, and the trimming processing is conducted, the origin for rotating the area can be designated to any one of each of apexes of the rectangle circumscribing the shape and the center of gravity of the rectangle.

36. The image processing program of claim 32, comprising;  
a switching section to switch any one of a first trimming area setting mode and a second trimming area setting mode, wherein the first trimming area setting mode is allowed that an area after the trimming processing protrudes from the area of the input image data, the second area setting mode is

restricted that an area after the trimming processing protrudes from the area of the input image data.

37. An image reading apparatus having the document table and document cover, comprising;

a document cover has elasticity and plasticity, and mass per 100 cm<sup>2</sup> is not smaller than 15 g, and not larger than 100 g.

38. An image reading apparatus having the document table and document cover, comprising

a document cover is formed of a plate-like member to which a plurality of joint portions are connected, and the plurality of joint portions can bend not smaller than  $\pm 30^\circ$  between terminals in the range separated by 10 cm of one direction, and the mass of the document cover per its 100 cm<sup>2</sup> is not smaller than 15 g and not larger than 100 g.

39. The image reading apparatus of claim 37, wherein the document cover has a press cover formed of plate member having the rigidity to press the document.